The teeth are in sockets placed obliquely, with conical crowns compressed to sharp lateral margins, and curved inward. The proportions of the vertebral column are those of Echidna, though the transverse processes are longer, as in Pareiasaurus. The ribs are like those of a Monotreme, though the sacral ribs are longer. The shoulder-girdle resembles that of Procolophon, and differs from typical Anomodonts in the constituent bones being unanchylosed, and in the precoracoid having a large anterior extension in adrance of the scapula. The sternum appears to have been unossified, as in Crocodilia. The humerus is widely expanded at both extremities and twisted, but does not show the peenliar lateral eurvature seen in Monotremes. The ulna gives no evidence of an oleeranonprocess; it is larger than the radius, and appears to artieulate with the humerus. The pelvic bones are without acetabular or obturatorperforations, are not anchylosed together, and the ilium is not expanded transversely. The hind-limb is no larger than the forelimb. The femur is more slender than the similar bone in Echidun. The fibula is prolonged proximally beyond the stout tibia, rond which it may rotate. The proximal row of the tarsus is one large boue, formed of the blended astragalus and os calcis.

In conclusion, the Author argues that the points of structure are so few in which Monotreme mammals make a closer approximation to the higher mammals than is seen in this fossil and other Anomudontia, that the Monotreme resemblances to fossil reptiles become inereased in importance. He believes that a group Theropsida might be made to include Monotremata and Anomodontia, the principal differences (other than those of the skull) being that Monotremes preserve the marsupial bones and the atlas vertebra. Ornithorhynchus shows pre-froutal and post-frontal bones, and has the malar arch formed as in Anomodonts and some other reptiles.

## miscellaneous.

The Dates of Esper's 'Schmetterlinge.' By C. Davies Sherbors. F.Z.S. \&e., and B. B. Woodwakd, F.L.s. \&e.

The following incomplete notes ( pl . 138-140) on the dates of E. J. C. Esper's 'Die europäischen Sehnetterlinge in Abbildungeu de., collected over several years, may be useful to students until further information be forthcoming. We have to thank Mr. L. B. Prout for some valuable memoranda, the references "A. V." ( $=$ illgemeines Verzeichniss derer Bucher, $\mathcal{E C}$.: Leipzig, Weidmann) coming from his manuscripts. "G. A." signifies " Göttingische gelehrte Anzeigen." The dates in square brackets are doubtful and are those used by Mr. Sherborn in his ' Index Animalium.'

The dates of Esper's ' Die ausländisehen (aussereurop.) Schmetterlinge' have been published by Prof. Aurivillius in K. Vet.-Ak. Handl. xix. (5) 1882, p. 18\%. We think the date of the last three parts (1.-16, pp. $205-254$ ) will be found to be 1798 . The 1801 titlepage belongs to the so-called second edition.

Ann. \& Mag. N. Hist. Ser. 7. Vol. vii.



> 1780 quoted on p． $9 ;$ A．V．，Oster．1781，p． 4.
1780 quoted on p． $45:$ A．V．，Mich．1781，p． 206. G．A． 1782 ，p． 1237 ，and 1783 ，p． 592. G．A． 1784 ，p． 823. G．A．168t，p． 82.

$$
\text { (f. A. } 1788, \text { p. } 324
$$

$$
\text { G. A. } 1788, \text { p. } 324
$$

$$
\begin{aligned}
& \text { (With text to Heft } 14 \text { of main work.) } \\
& \} \text { G. A. } 178+\text {, p. } 223 . \\
& \text { G. A. } 1788, \text { p. } 324 .
\end{aligned}
$$

$$
\begin{aligned}
& \text { (\&, A. } 1792 \text {, p. } 653 . \\
& \text { G. A. } 1798 \text {, p. } 654 .
\end{aligned}
$$

$$
\} \text { G. A. } 1798 . \text { p. } 654 .
$$

On $O_{s}$ we read＂in dew abgewichenen＇s sommer＇s
 Completed 1805，Engelmaun，Hagen． G．A． 1792 ，p． 12.53.
G．A． 1798, ， 1.654 ．
On p．：32＂in algewichenen 1797 Jabre．＂ On p．：：2＂im algewichenen 1797 Jabre．
Completed 1806 ，Engelmam；Hagen． G A．1792，p． 653.

G．A．1798，p． 654.
P． 91 quotes 1795 ．
Completed 1807, E
Completed 1807，Eugehnann：Hagen．


## $\left[\begin{array}{l}0831 \\ {[085} \\ \hline 0\end{array}\right]$


$\qquad$ －
$\qquad$ ［c08t］ 1789
1793
$[1797]$
$[1806]$ 188 8管会䍐怱




Fortsetzung der lagschmetterlingen
pp．1－68 69－100定良 141－15\％
 に65－¢8I

$0 \mathrm{GI}-\mathrm{COT}$

 a
0 5
5
6
6

| 8 |
| :---: |
| $+0[-c 6$ | Theile

$\qquad$

系
$\rightarrow \%$
$\begin{array}{r}8 \\ 8 \\ \hline 8\end{array}$ 8
8
8
［Ed． 2 is identical with ed．1，plue x

